

TOP SECRET 69486860

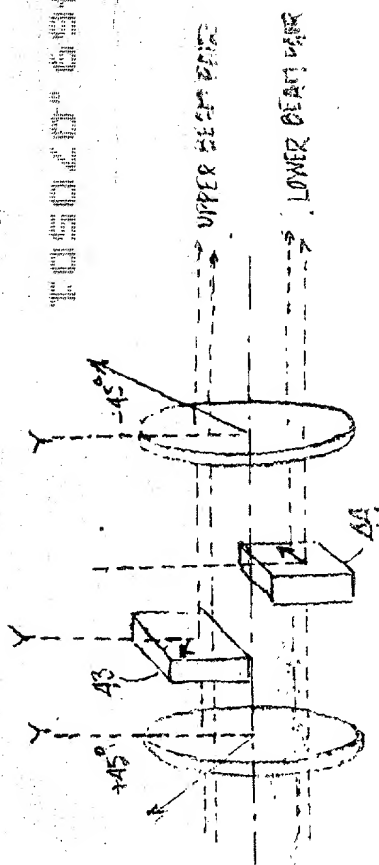


FIG. 5

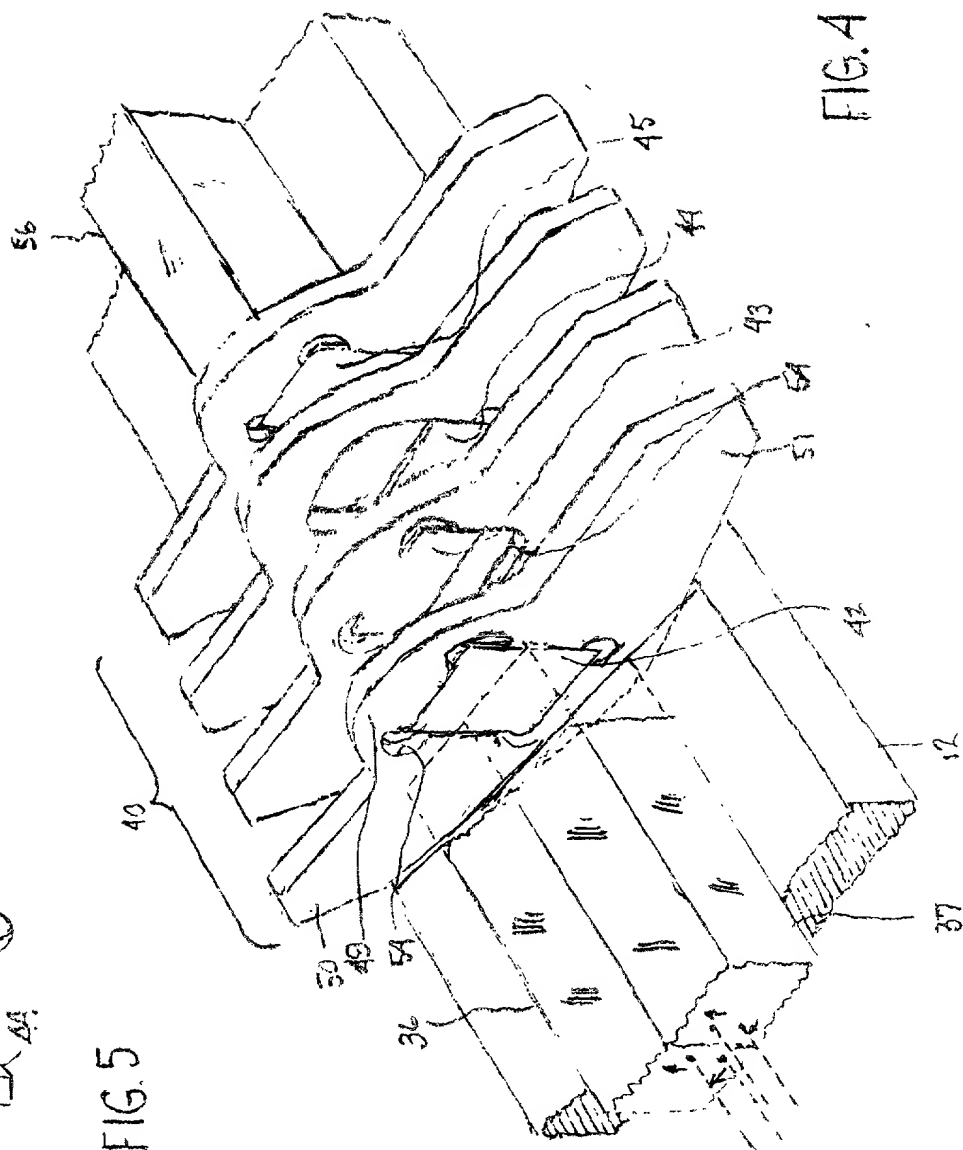


FIG. 4

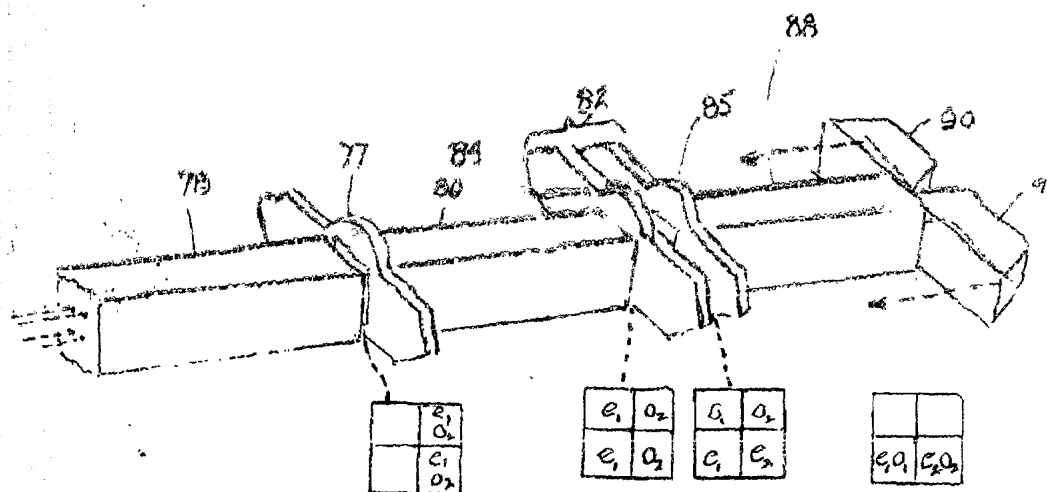
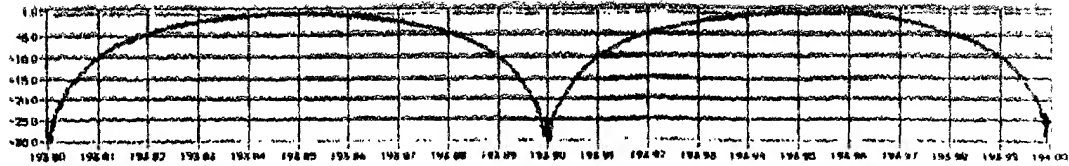


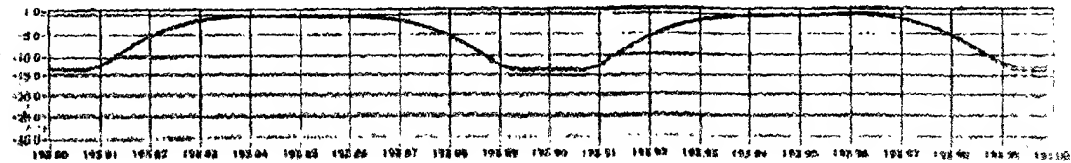
FIG.6

09090459-070501

stage 1: channel separation



stage 2: passband flattening



stage 3: crosstalk reduction

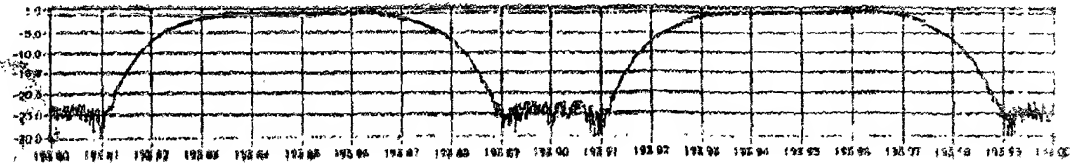


Figure 7 Effect of multiple stages on interleaver transmission characteristics

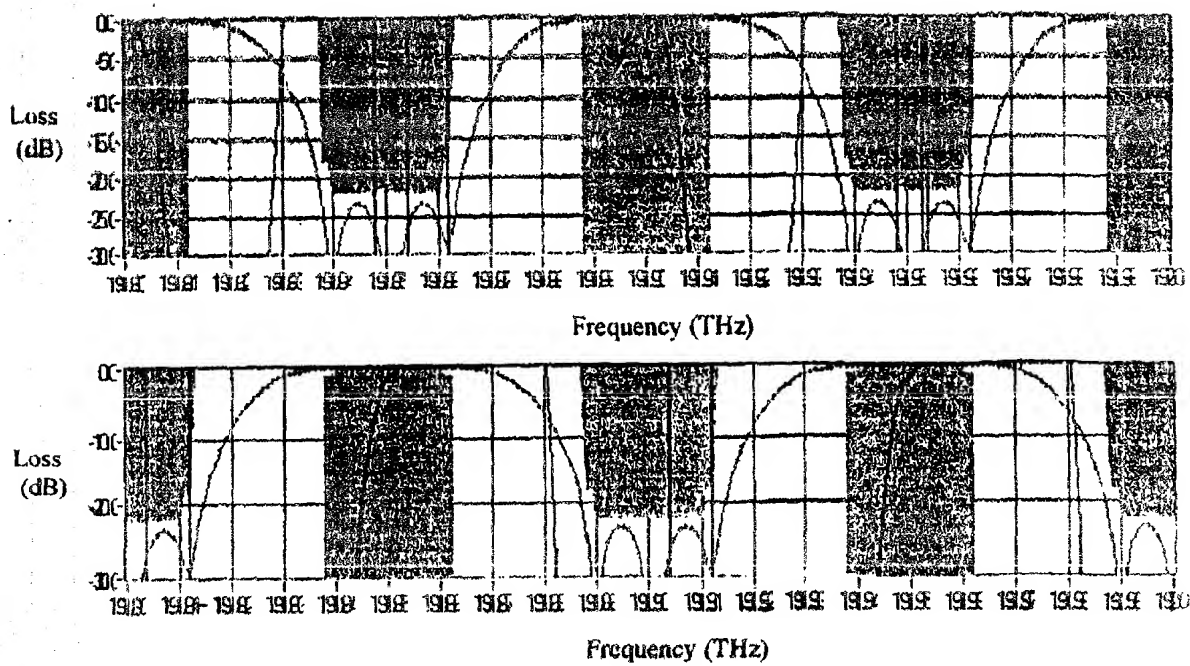
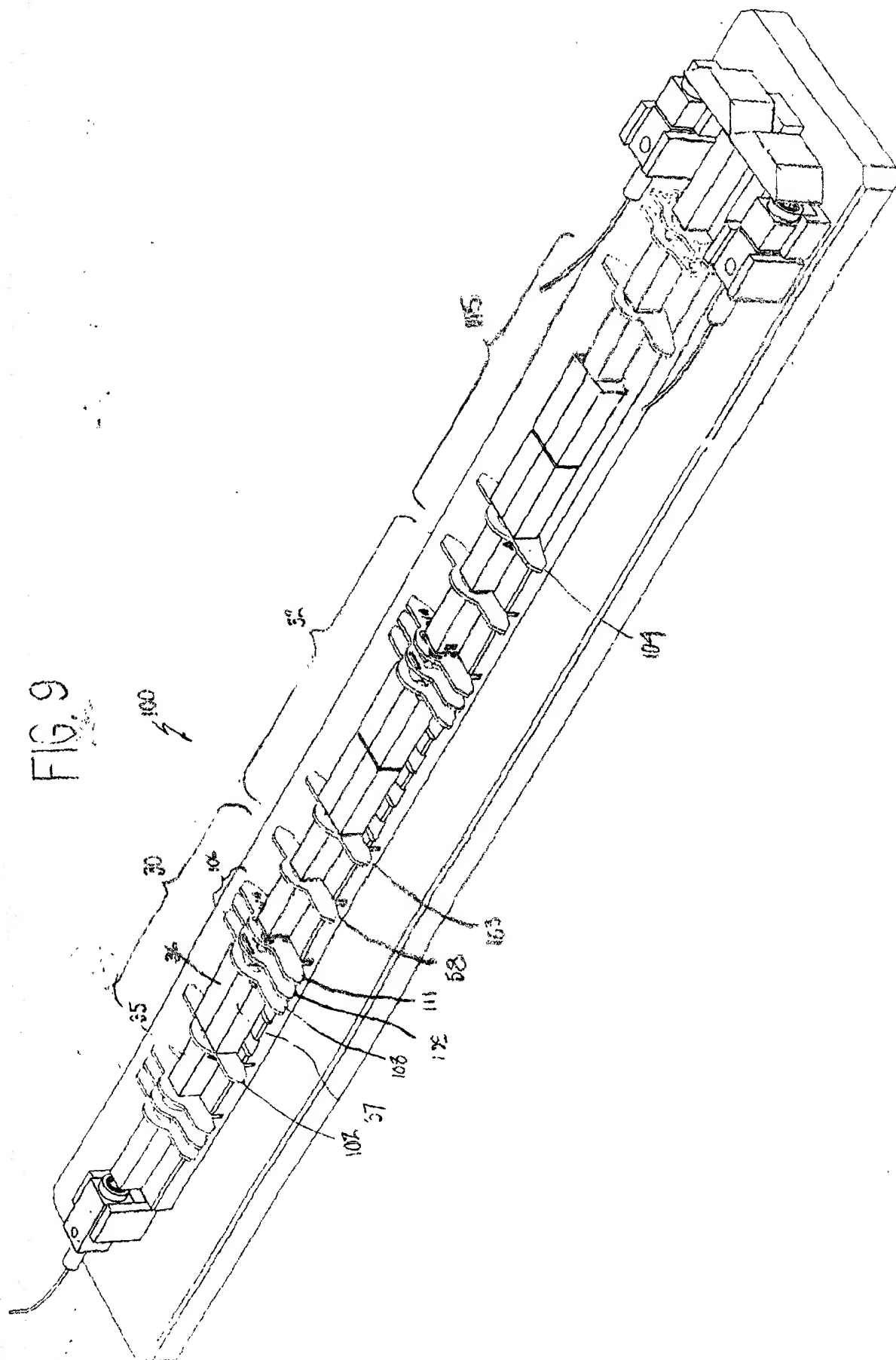
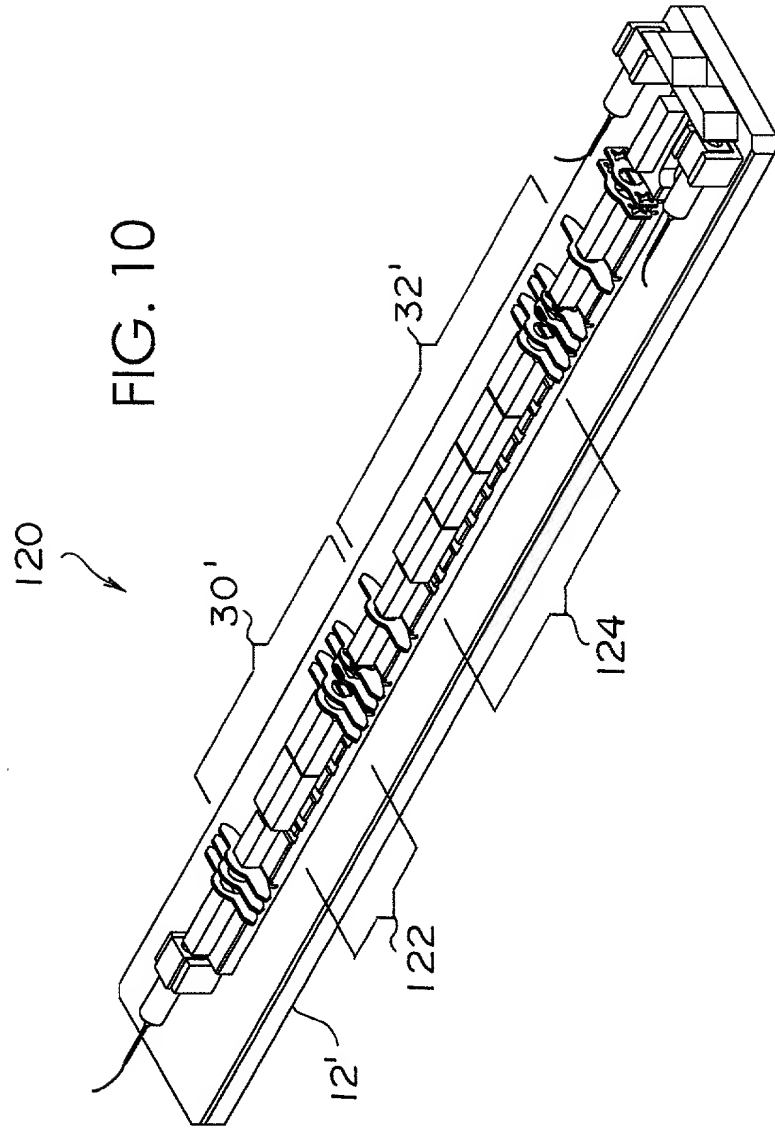


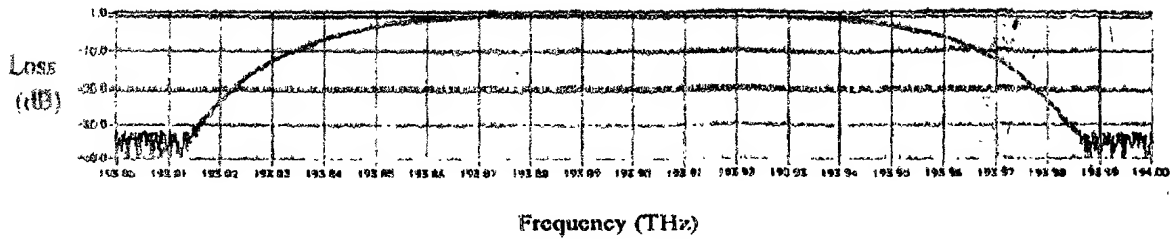
Figure 8 Optical response of a three stage 50 GHz interleaver

FIG. 9

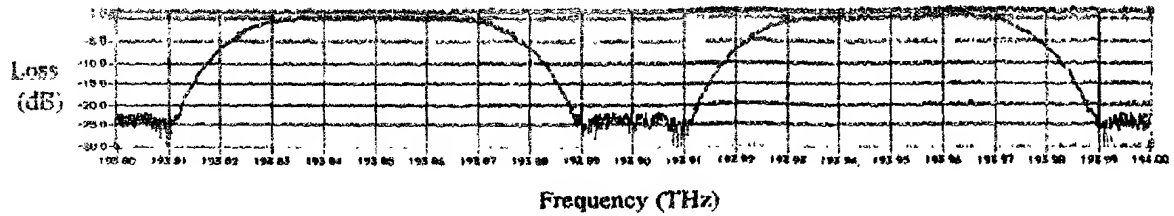




100 GHz



50 GHz



25 GHz

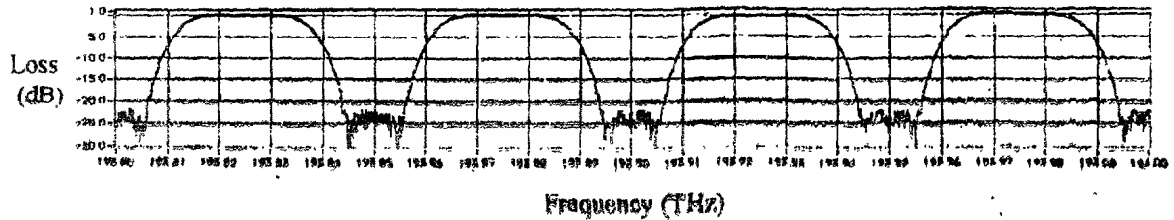
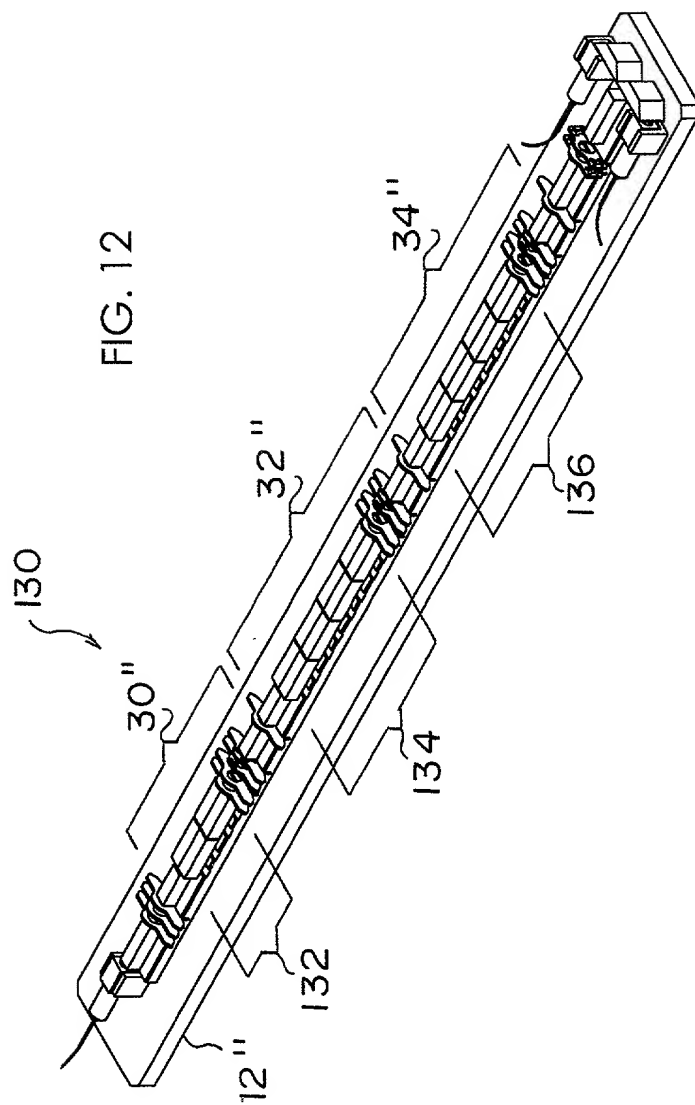


Figure 11 Comparison of 100, 50, 25 GHz interleaver responses (one output only)



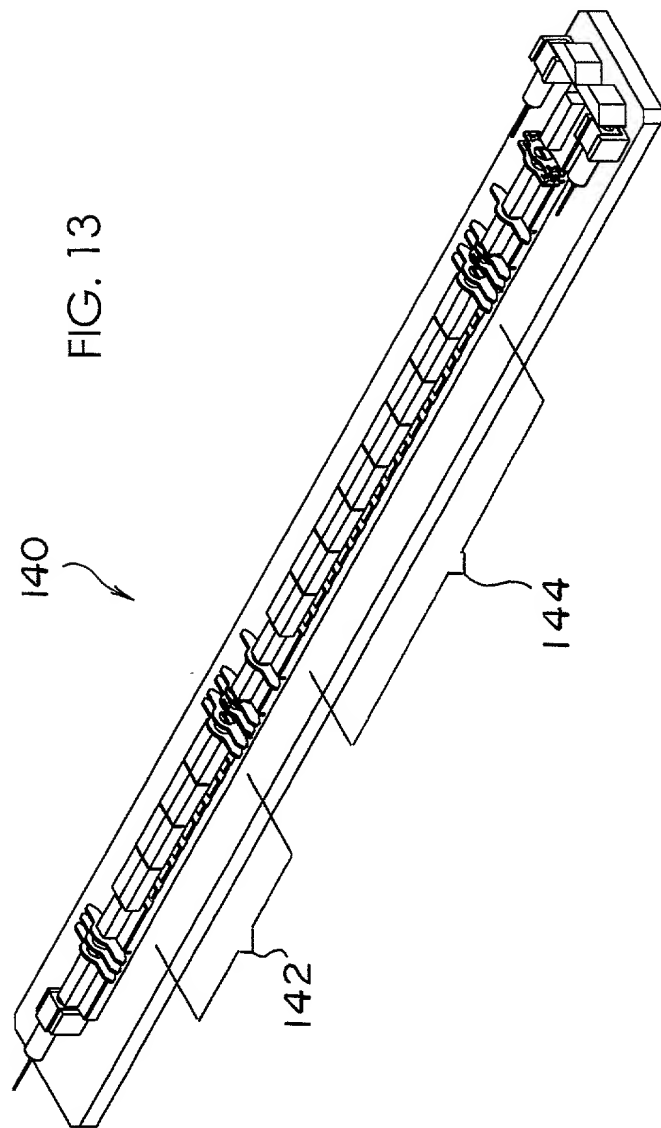


FIG. 14

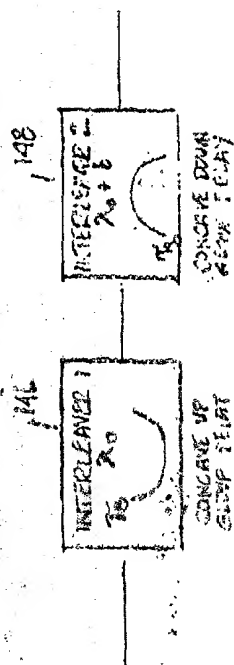


FIG. 15

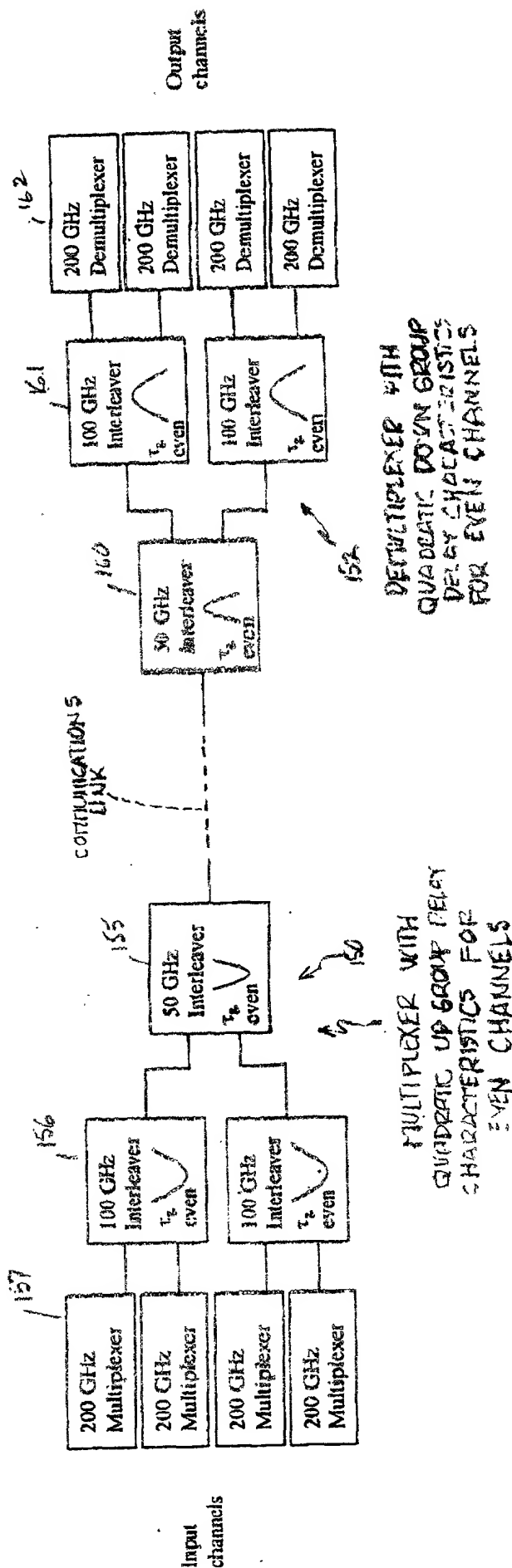


FIG. 15

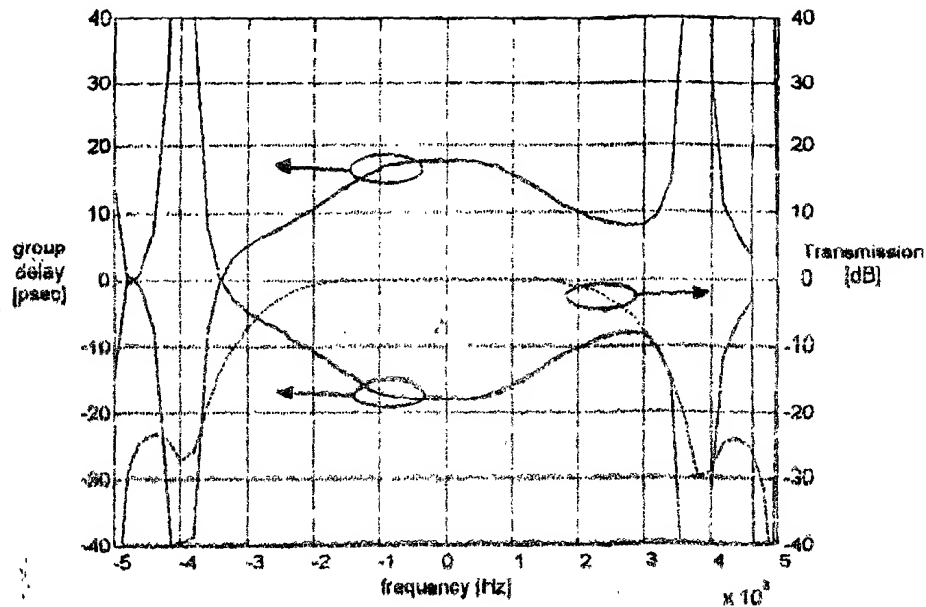


Figure 16 Calculated group delay for even and odd wavelength channels.

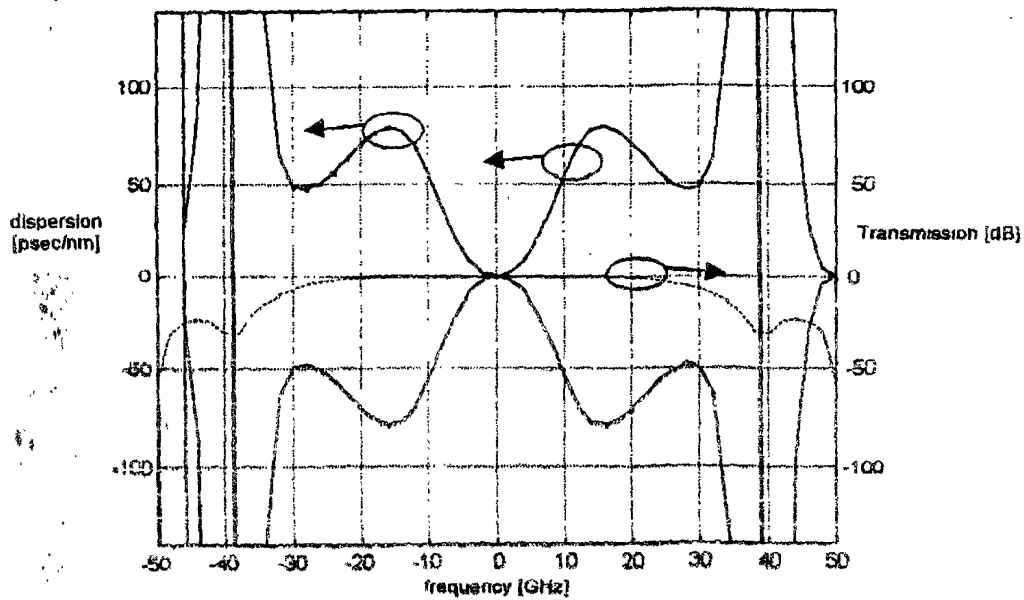
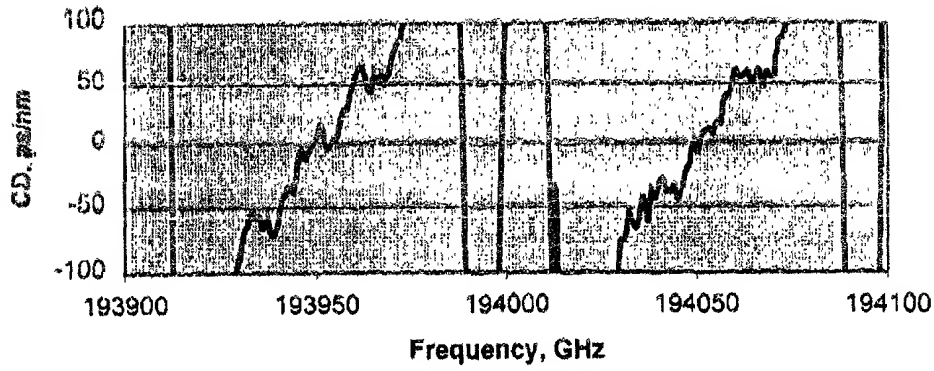
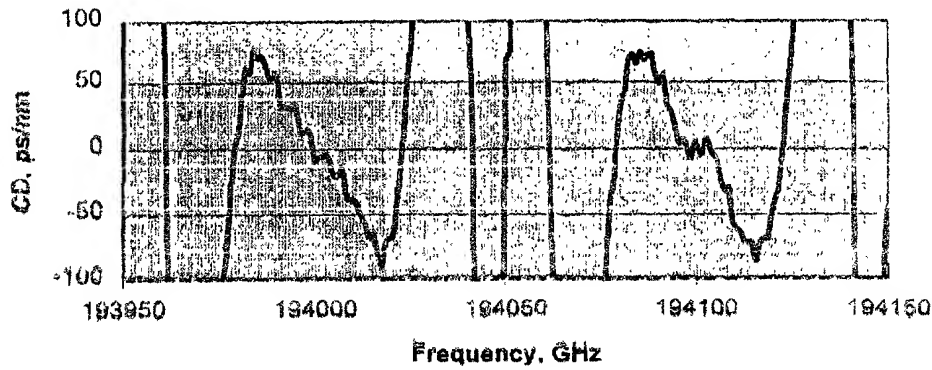


Figure 17 Calculated chromatic dispersion for even and odd wavelength channels.

50 GHz Interleaver Chromatic Dispersion
Type 1 Channel 2

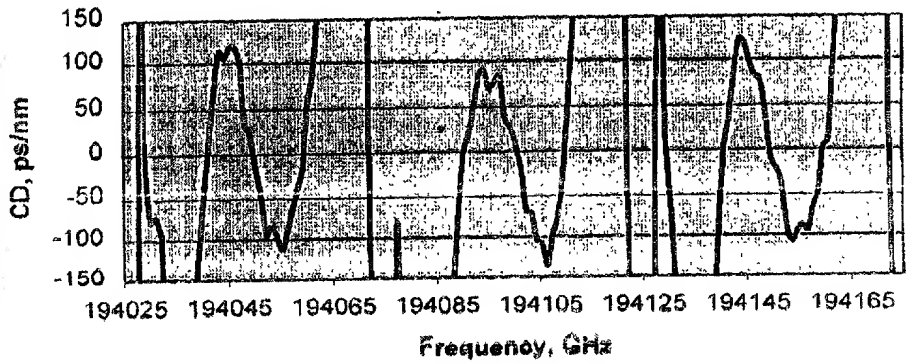


50 GHz Interleaver Chromatic Dispersion
Type 1 Channel 1

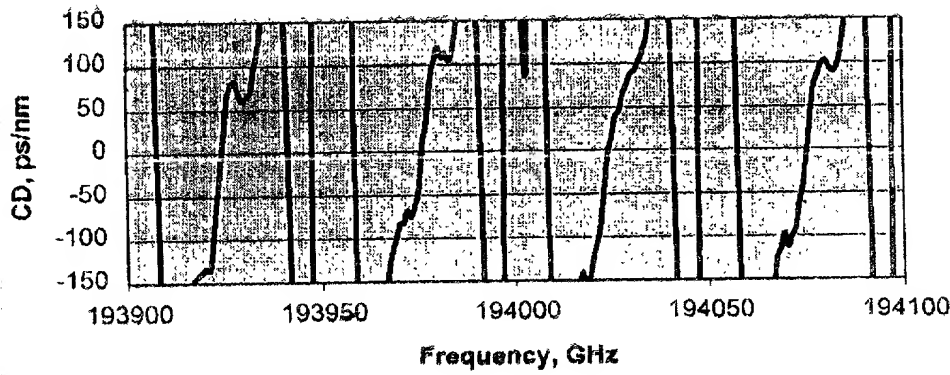


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Figure 27: CD of 50 GHz interleaver

25 GHz Chromatic Dispersion
Type 1 Channel 1



25 GHz Chromatic Dispersion
Type 1 Channel 2



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Figure 20: CD of 25 GHz interleaver

